

# *B.N.M. Institute of Technology*

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**Department: Electrical & Electronics Engineering**

## **Innovative Teaching Method**

**Academic Year 2019-20**

Sl. No.	Name of Faculty	Course	Semester	Innovative method	Whether published in website? (Yes/No)
1.	1. Dr. Sudulai Shunmugam S 2. Smt. Champa P N 3. Smt. Raksha S	Basic Electrical Engineering Laboratory	2 <sup>nd</sup>	Measurement of current, power, power factor <a href="https://youtu.be/he93FG7nGDY">https://youtu.be/he93FG7nGDY</a>	Yes
				Verification of KVL & KCL <a href="https://youtu.be/NLF9Ktppvc4">https://youtu.be/NLF9Ktppvc4</a>	Yes
				Open circuit and Short circuit <a href="https://youtu.be/NLF9Ktppvc4">https://youtu.be/NLF9Ktppvc4</a>	Yes
				Three voltmeter method <a href="https://youtu.be/otMVsomI4sU">https://youtu.be/otMVsomI4sU</a>	Yes
				Determination of phase and line quantities in 3-phase star and Delta connected load <a href="https://youtu.be/A9mAAXMofmI">https://youtu.be/A9mAAXMofmI</a>	Yes
				Two Wattmeter method <a href="https://youtu.be/5Ie17mcQhH8">https://youtu.be/5Ie17mcQhH8</a>	Yes
				2 way & 3 way control of lamp <a href="https://youtu.be/2jxW6X_SMXA">https://youtu.be/2jxW6X_SMXA</a>	Yes
2	1. Smt. Ashwini A 2. Ms. Kruthi Jayaram	Electrical Machines Laboratory	4 <sup>th</sup>	Load Test on DC Shunt Motor <a href="https://youtu.be/x1E90Ut_57c">https://youtu.be/x1E90Ut_57c</a>	Yes

				Field's test on Series Motor <a href="https://youtu.be/NGytBDv4A4I">https://youtu.be/NGytBDv4A4I</a>	Yes
				Speed Control of DC Shunt Motor <a href="https://youtu.be/NSzfdgmfD6A">https://youtu.be/NSzfdgmfD6A</a>	Yes
				Swinburne's Test <a href="https://youtu.be/jtfWai3KRCO">https://youtu.be/jtfWai3KRCO</a>	Yes
				Retardation Test – Electrical Braking Method <a href="https://youtu.be/qjBTLYTfTUE">https://youtu.be/qjBTLYTfTUE</a>	Yes
				Load test on 3 phase induction motor <a href="https://youtu.be/bM1bRY4YJNw">https://youtu.be/bM1bRY4YJNw</a>	Yes
				No Load and Blocked Rotor test on 3-phase IM <a href="https://youtu.be/vfDRpPo0yDk">https://youtu.be/vfDRpPo0yDk</a>	Yes
				Load test on Single – phase induction motor <a href="https://youtu.be/Jch28-JUM3U">https://youtu.be/Jch28-JUM3U</a>	Yes
				V and I Curves of Synchronous Motor <a href="https://youtu.be/uzaa5bDGJZU">https://youtu.be/uzaa5bDGJZU</a>	Yes
3.	Dr. Madhu S	Control System Laboratory	6 <sup>th</sup>	AC Servomotor <a href="https://youtu.be/xLQe9BTn30w">https://youtu.be/xLQe9BTn30w</a>	Yes
				DC Servomotor <a href="https://youtu.be/xok41xVem9s">https://youtu.be/xok41xVem9s</a>	Yes
				Synchro Pair characteristics <a href="https://youtu.be/M93m2TbICNw">https://youtu.be/M93m2TbICNw</a>	Yes
4.	1. Dr. Venkatesha K 2. Smt. Shubha Rao K 3. Smt. Karanama Vasudha	OP-AMP & LIC Laboratory	4 <sup>th</sup>	Band pass filter <a href="https://youtu.be/qFHaePn1oJc">https://youtu.be/qFHaePn1oJc</a>	Yes
				Frequency response of inverting and non-inverting amplifier	Yes

				<a href="https://youtu.be/TGPvO9fQXiU">https://youtu.be/TGPvO9fQXiU</a>	
				Op-Amp based Schmitt trigger <a href="https://youtu.be/7XeQg9qPMdU">https://youtu.be/7XeQg9qPMdU</a>	Yes
				Regulator IC 7805, 7912, performance characteristics <a href="https://youtu.be/vpPobrgC7tE">https://youtu.be/vpPobrgC7tE</a>	Yes
				Square and triangular wave generator. <a href="https://youtu.be/CODZ4s7Did0">https://youtu.be/CODZ4s7Did0</a>	Yes
				R-2R ladder DAC. <a href="https://youtu.be/OcvOWlb9e2k">https://youtu.be/OcvOWlb9e2k</a>	Yes
				RC Phase shift oscillator <a href="https://youtu.be/m11fqp7IP1E">https://youtu.be/m11fqp7IP1E</a>	Yes
5	Sri.A Kumar	Microcontroller	5 <sup>th</sup>	Cross word puzzle	Yes
6	Dr. Priyashree S	Basic Electrical Engineering	2 <sup>nd</sup>	Crossword Puzzle	Yes
7	Dr.S.Sudalai Shanmugam	Transmission and Distribution	4 <sup>th</sup>	i) Showcasing different insulator units in class and demonstrating its physical and electrical property. ii) Presenting videos and pictures of actual field and laboratory measurements.	Yes
8	Dr.S.Sudalai Shanmugam	High Voltage	7 <sup>th</sup>	i) Showcasing different insulator units in class and demonstrating its physical and electrical property. ii) Presenting videos and pictures of actual field and laboratory measurements.	Yes
9	Smt. Shubha Rao K	Op-Amp and LIC	3 <sup>rd</sup>	Demonstration of operation of Op-amp based summing ,Schmitt trigger, wave generation and rectifier circuits using industry standard simulation software	Yes

10	Smt. Ashwini A	Electrical Machine Design	6 <sup>th</sup>	i) Quiz using Google form ii) Fill in the blanks & name the parts of machines	Yes
11	Ms. Kruthi Jayaram	Power Electronics	5 <sup>th</sup>	MCQs	Yes
12	Sri. Sujith T	CAED	6 <sup>th</sup>	Created a video about the introduction of the Auto CAD software tools	Yes

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**Department: Electrical & Electronics Engineering**

## **Innovative Teaching Method**

**Subject:** Basic Electrical Engineering Laboratory, Electrical Machines Laboratory, Control System Laboratory, OP-AMP & LIC Laboratory

**Sem:** I/II , IV and VI sem EEE (Even Sem 2019-20)

**Title of Innovative method/Activity:** Virtual Laboratory Classes

**Year:** 2019-20

**Faculty:** Dr. Sudulai Shunmugam S, Smt. Champa P N, Smt. Raksha S for Basic Electrical Lab.

Smt. Ashwini A, Ms. Kruthi Jayaram for Machines Lab-I

Dr. Venkatesha K, Smt. Shubha Rao k and Mrs. Karanam Vasudha for Opamp Lab.

Mrs. Madhu for Control System Lab

### **Goals/Objective of method:**

To create a virtual Lab for the students.

### **Description of method:**

Video Recording of experiments of various laboratories was done and uploaded on YouTube so that the students can watch it anytime and anywhere and understand the concepts very well.

### **Benefits of method:**

- Creation of technical awareness amongst the students.
- A permanent record of conduction of experiments.

### **Effectiveness of method:**

Students' especially slow learners are able to understand the concepts in a much better way.

### **For review and critique contact:**

### **E-Mail address of faculty:**

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Department of Electrical & Electronics Engineering

## **Innovative Teaching Method**

**Title of Innovative method/Activity:** CROSSWORD PUZZLE

**Year:** 2019 - 2020

**Faculty/Inventor:** Dr. Priyashree S

**Designation:** Associate Professor

**Course Name:** Basic Electrical Engineering

### **Goals/Objective of method:**

The students are required to identify the one-word answer from the given clues and encircle the same from the word grid.

### **Description of method (8-10 lines):**

This concept gives an insight for the students about the basic definitions, Law's, and terminologies pertaining to fundamentals of the course Basic Electrical Engineering. The students are required to recollect and write these terms and definitions in order to identify the solution for the given question. The Quiz was evaluated based on the maximum marks scored by each student with a mapping of 1 mark for each question.

### **Benefits of method:**

The course, Basic Electrical Engineering is a foundation course for the Engineering students of all domains. It requires the students to memorize several terms, definitions and Laws'. The quiz has been framed such that the students can adapt to these significant terms, their definitions and fundamental Laws on Electrical Engineering conveniently. This quiz will provide awareness about the concepts being taught during the regular classes & facilitates as a revision for the internal assessments being conducted periodically during the semester.

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## **Department of Electrical & Electronics Engineering**

### **Innovative Teaching Method – High Voltage Engineering (15EE73)**

#### **Title of Innovative method/Activity:**

Introduction to the High Voltage Measurement and Testing Techniques

**Year:** 2019

**Faculty/Inventor:** Dr S Sudalai Shunmugam

**Designation:** Associate Professor

#### **Goals/Objective of method:**

1. To give the introduction about the various testing measurement and testing techniques followed as per national and international standards
2. To share the videos and pictures of the actual field measurement and laboratory testing procedure.

#### **Description of method (8-10 lines):**

- A brief introduction of testing standards adopted (IEC and IS)
- To elaborate the difference between type test and routine test
- HVE measurement & testing pictures and videos of on and off-field conditions were shared with the students

#### **Benefits of method:**

- Awareness of testing techniques adopted in the industries.
- A brief introduction about power system component interaction with the immediate environment.

#### **For review and critique contact:**

**E-Mail address of faculty and HoD:**

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### **Department of Electrical & Electronics Engineering**

#### **Innovative Teaching Method – Transmission and Distribution (17EE43)**

##### **Title of Innovative method/Activity:**

1. Showcasing different insulator units in class and demonstrating its physical and electrical property.
2. Presenting videos and pictures of actual field and laboratory measurements.

**Year:** 2020

**Faculty/Inventor:** Dr S Sudalai Shunmugam

**Designation:** Associate Professor

##### **Goals/Objective of method:**

1. To demonstrate the different physical property of insulator
2. To explain the design variations in different types of insulator
3. To give the introduction about the selection procedure followed by the utilities for the selection of power system components.

##### **Description of method (:**

- Insulators were brought from various industries. The types, construction and working principle of the outdoor insulators were explained in detail to the students as a practical demo.
- Using water spraying technique, the physical property of the different insulator unit is briefed.
- From the rating and dimension, the students are encouraged to find the configuration of insulator assembly.
- Before the start of the each class, first five minutes is used to revise the syllabus covered in the earlier class.

##### **Benefits of method:**

- Creation of technical awareness amongst the students regarding outdoor insulation selection.

**For review and critique contact: E-Mail address of faculty and HoD:**

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**Department: Electrical & Electronics Engineering**

## **Innovative Teaching Method**

**Subject:** Microcontroller- 17EE52

**Sem:** V EEE (Odd Sem 2019-20)

**Title of Innovative method/Activity:** Cross word puzzle. **Year:** 2019-20

**Faculty:** A. Kumar

**Designation:** Associate Professor

### **Goals/Objective of method:**

To make the students aware of the basics of microcontroller 8051.

### **Description of method:**

A cross word puzzle covering the basics of 8051 architecture, instructions, and timers of 8051 was created to make students aware of the basics.

### **Benefits of method:**

- Creation of technical awareness amongst the students.

### **Effectiveness of method:**

- Take feedback of students on these innovative methods/activities with well deigned feedback forms and analyze the feedback.

### **For review and critique contact:**

**E-Mail address of faculty:**

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**Department: Electrical & Electronics Engineering**

## **Innovative Teaching Method**

**Subject:** Basic Electrical Engineering -18EE13

**Semester:** 1<sup>st</sup> ISE (Even Sem 2019-20)

**Year:** 2019-20

**Faculty:** A. Kumar

**Designation:** Associate Professor

### **Title of Innovative method/Activity:**

Showcasing machine parts, transformer in class.

### **Goals/Objective of method:**

- To make the students aware of the basics of electrical concepts.
- To demonstrate the machine parts and transformer for better understanding of the construction.

### **Description of method:**

- Various machine parts like, stampings, rotor, shaft, commutator, transformer were shown physically in the class enable students to visualize the machine construction.

### **Benefits of method:**

- Creation of technical awareness amongst the students.
- Better understanding of the machine parts and construction.

### **Effectiveness of method:**

- The method will help the student to understand and explain the machine parts better in exams.

### **For review and critique contact:**

**E-Mail address of faculty:**

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**Department: Electrical & Electronics Engineering**

## **Innovative Teaching Method**

**Subject:** Linear Integrated Circuits -18EE46

**Semester:** 4<sup>th</sup> EEE (Even Sem 2019-20)

**Year:** 2019-20

**Faculty:** Mrs. Shubha Rao K

**Designation:** Associate Professor

### **Title of Innovative method/Activity:**

Demonstrate the operation of Op-Amp circuits through simulation in the class.

### **Goals/Objective of method:**

1. To make the students understand the design and operation of op-amp based circuits
2. To analyse the circuit operation under different conditions

### **Description of method:**

- Various op-amp based circuits are simulated using ORCAD Pspice simulation tool in the class to enable the students to analyse its operation.

### **Benefits of method:**

- Creation of technical awareness amongst the students.
- Better understanding of circuit operation.

### **Effectiveness of method:**

- The method will help the student to understand and analyse op-amp based circuits

### **For review and critique contact:**

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## Department of Electrical & Electronics Engineering

### Innovative Teaching Method

Title of Innovative method/Activity: **MCQs**

Year: **2019-20**

Faculty/Inventor: **Ashwini A**

Designation: **Asst. Professor**

Course Name: **Electrical Machine Design**

#### **Goals/Objective of method:**

The main objective was to make the students learn the topics of Fundamental Aspects of Electrical Machine Design and Electrical Engineering Materials in an exciting & enjoyable way.

#### **Description of method:**

MCQs for Fundamental Aspects of Electrical Machine Design and Electrical Engineering Materials were created using Google quiz. It has 10 questions with 4 options for each. The options are randomized. The responses are recorded in excel.

#### **Benefits of method:**

The theory based topics can be understood in an informal way.

For review and critique contact:

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## Department of Electrical & Electronics Engineering

### Innovative Teaching Method

Title of Innovative method/Activity: **Schoology Platform**

Year: **2019-2020**

Faculty/Inventor: **Smt. Madhu S**

Designation: **Assistant Professor**

Course Name: **Control Systems**

Goals/Objective of method:

1. To understand the importance of Pre-requisites for the course.
2. To make students be in synchronous with the topics being taught.
3. To avail a platform for the students to discuss about the course, ask queries, interact with teacher & Peer group, clarify doubts through Discussion forum.
4. To post quizzes on each module.
5. To communicate with students and monitor their progress throughout the course execution.

Description of method (8-10 lines):

The method for Innovative teaching is a learning management system (LMS) known as '**Schoology**'. through which an engaging content has been created. I have created various quizzes, uploaded notes, online class links, have given assignment, home works and online assignment submissions by students. The students have taken up the quizzes, home works, and assignments and also interacted with the teacher and peer group for discussion, doubts, and queries through Discussion Forum. The quizzes are evaluated, graded and guidance for the students has been provided based on the need.

Benefits of method:

The Benefits are as below:

We can create as many courses as we require and keep them separate.

1. Through the access code that has been generated for a course, the student can join the course.
2. It is a secured application since each course has an access code that can be reset upon need.
3. The person who has created the course will be the admin and other members cannot edit or change any settings on the LMS.
4. It is a secured platform where the student can keep track of his/her activities privately.

5. We can share the notes, resources, youtube links, etc.
6. The size of the file that it supports is appreciable.
7. We can conduct online quizzes and online assessments
8. We can randomize the options and also the questions in the quiz.
9. Automatic grading is possible for the quizzes.
10. The learning objective can be defined for the courses
11. We can link the course outcomes for the quiz questions and assessment questions.
12. It gives notifications for all the events that are planned.
13. It gives notifications upon any submission done on the platform.
14. A mobile application is available which helps for quick checking and updating.
15. A time limit can be set for any submission.
16. The pdf documents can be uploaded by the students for assessment and assignment which can be evaluated on the platform itself and the grading can be given.
17. The attendance of the class can also be maintained on the platform itself.
18. The grade book and the attendance reports are downloadable.
19. A blog can also be created using Schoology and it can be published.
20. Badges can be offered to the students based upon their performance and involvement.
21. The badges available are Good listener, perfect attendance, positive attitude, problem solver.
22. An appreciation award called 'Student of the month can be offered to keep up their learning interests

For review and critique contact:

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Department of Electrical & Electronics Engineering

Innovative Teaching Method

**Title of Innovative method/Activity:** Power Electronic Quiz

**Year:** 2019-2020

**Faculty/Inventor:** Prof. Kruthi Jayaram

**Designation:** Assistant Professor

**Course Name:** Power Electronics

**Goals/Objective of method:** The main objective was to know whether the students have understood the initial concepts of power electronics.

**Description of method:**

QUIZ – It was conducted on initial topics of types of semiconductor devices. The quiz included identification, operation and rating of various PE devices.

**Benefits of method:**

Students were able to identify the depth of initial topics in PE devices.

For review and critique contact: E-Mail address of faculty and HoD

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